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<120> NOVEL PEPTIDE ANALOGS FOR THE TREATMENT OF CANCER

<130> U012104-2

<140> 09/248,382

<141> 1999-02-11

<150> 343/DEL/98

<151> 1998-02-11

<160> 29

<170> PatentIn Ver. 2.0

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<400> 1

Leu Met Tyr Pro Thr Tyr Leu Lys

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5

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

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<221> MOD\_RES

<222> (1)

<223> /product = 2-amino-isobutyric acid/ label = Aib

<220>  
<221> MOD\_RES  
<222> (7)  
<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 2  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

<210> 3  
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<220>  
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was synthetically generated.

<220>  
<221> MOD\_RES  
<222> (1)  
<223> /product = D-leucine/ label = D-Leu

<220>  
<221> MOD\_RES  
<222> (7)  
<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 3  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

<210> 4  
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<213> Artificial Sequence

<220>  
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was synthetically generated.

<220>  
<221> MOD\_RES  
<222> (6)  
<223> /product = D-tyrosine/ label = D-Tyr

<400> 4  
Leu Met Tyr Pro Thr Xaa Leu Lys  
1 5

<210> 5  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

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<223> /product = D-leucine/label = D-Leu

<400> 5  
Leu Met Tyr Pro Thr Tyr Xaa Lys  
1 5

<210> 6  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
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was synthetically generated.

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<220>  
<221> MOD\_RES  
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<400> 6  
Leu Met Xaa Pro Thr Tyr Xaa Lys  
1 5

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Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

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<400> 8  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
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<210> 9  
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<220>  
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<223> /product = D-leucine/label = D-Leu

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<222> (7)  
<223> /product = Di-ethylglycine/ label = Deg

<400> 9  
Xaa Met Tyr Pro Thr Tyr Xaa Lys  
1 5

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<220>  
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was synthetically generated.

<220>  
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<223> /product = Leucine N-ethylamide/label = Leu-NHet

<400> 10  
Xaa Gln Trp Ala Val Gly His Xaa  
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214

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<400> 11  
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<210> 12  
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<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 12  
Xaa Gln Trp Ala Val Xaa His Leu  
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<222> (4)

<223> /product = 2-amino-isobutyric acid/ label = Aib

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1

5

<210> 14

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide was synthetically generated.

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<222> (1)

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<220>

<221> MOD\_RES

<222> (6)

<223> /product = 2-amino-isobutyric acid/ label = Aib

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Xaa Gln Trp Ala Val Xaa His Leu

1

5

<210> 15

<211> 8

<212> PRT

<213> Artificial Sequence

<220>  
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<400> 15  
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214  
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<400> 16  
Xaa Gln Trp Xaa Val Gly His Ile  
1 5

<210> 17  
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<221> MOD\_RES  
<222> (6)  
<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 17  
Xaa Gln Trp Ala Val Xaa His Ile  
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<210> 18  
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<212> PRT  
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<220>  
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was synthetically generated.

<220>  
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<222> (5)  
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<220>  
<221> MOD\_RES  
<222> (7)  
<223> /product = D-tryptophan/label = D-Trp

<220>  
<221> MOD\_RES  
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Xaa Pro Lys Pro Xaa Gln Xaa Phe Xaa Leu Leu  
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914  
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<212> PRT  
<213> Artificial Sequence

<220>  
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was synthetically generated.

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<220>  
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<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 19  
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<210> 20  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>  
<221> MOD\_RES  
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<223> /product = Di-ethylglycine/label = Deg

<220>  
<221> MOD\_RES  
<222> (6)  
<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 20  
Xaa Met Gln Trp Phe Xaa  
1 5

214

<210> 21  
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<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

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<221> MOD\_RES  
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<220>  
<221> MOD\_RES  
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<223> /product = 2-amino-isobutyric acid/ label = Aib

<400> 21  
Xaa Met Gln Trp Phe Xaa  
1 5

<210> 22  
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<212> PRT  
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<220>  
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was synthetically generated.

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<222> (1)  
<223> /product = D-arginine/label = D-Arg

<220>  
<221> MOD\_RES  
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<223> /product = 2-amino-isobutyric acid/ label = Aib

<220>  
<221> MOD\_RES  
<222> (7)  
<223> /product = D-tryptophan/label = D-Trp

<220>  
<221> MOD\_RES  
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<223> /product = D-tryptophan/label = D-Trp

<220>  
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<400> 22  
Xaa Pro Lys Pro Xaa Gln Xaa Phe Xaa Xaa Leu  
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<210> 23  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated

<220>  
<221> MOD\_RES  
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<223> /product = D-phenylalanine/label = D-Phe

<220>  
<221> MOD\_RES  
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<223> /product = D-tryptophan/label = D-Trp

<220>  
<221> MOD\_RES  
<222> (9)  
<223> /product = D-tryptophan/label = D-Trp

<400> 23  
Arg Pro Xaa Pro Xaa Gln Xaa Phe Xaa Leu Leu  
1 5 10

214  
<210> 24  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

<220>  
<221> MOD\_RES  
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<223> /product = D-tryptophan/label = D-Trp

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<221> MOD\_RES  
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<223> product - note: disulfide bridges: 3-14

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<221> MOD\_RES  
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<400> 24  
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<210> 25  
<211> 14  
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<220>  
<221> MOD\_RES  
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<223> /product = D-tryptophan/label = D-Trp

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<221> MOD\_RES

<222> (13)

<223> /product = D-serine/label = D-Ser

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<221> MOD\_RES

<222> (3)..(14)

<223> product - note: disulfide bridges: 3-14

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Ala Xaa Cys Lys Asn Phe Phe Xaa Lys Thr Phe Thr Xaa Cys

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5

10

<210> 26

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: This peptide was synthetically generated.

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<221> MOD\_RES

<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

<220>

<221> MOD\_RES

<222> (4)

<223> /product = D-tryptophan/label = D-Trp

<220>

<221> MOD\_RES

<222> (5)

<223> /product = Ornithine/label = Orn

<220>

<221> MOD\_RES

<222> (7)

<223> /product = Penicillamine/label = Pen

<400> 26

Xaa Cys Tyr Xaa Xaa Thr Xaa Thr

1

5

&lt;210&gt; 27

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)

&lt;223&gt; /product = D-phenylalanine/label = D-Phe

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (4)

&lt;223&gt; /product = D-tryptophan/label = D-Trp

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (7)

&lt;223&gt; /product = 2-amino-isobutyric acid/ label = Aib

&lt;400&gt; 27

Xaa Cys Tyr Xaa Lys Thr Xaa Thr

1

5

&lt;210&gt; 28

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: This peptide  
was synthetically generated.

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)

&lt;223&gt; /product = D-phenylalanine/label = D-Phe

&lt;220&gt;

&lt;221&gt; MOD\_RES

<222> (8)

<223> /product = Isoleucine N-ethylamide/label =  
Ile-NHet

<400> 28

Xaa Gln Trp Ala Val Gly His Xaa  
1 5

<210> 29

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

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<220>

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<222> (1)

<223> /product = D-phenylalanine/label = D-Phe

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<221> MOD\_RES

<222> (3)

<223> /product = D-tryptophan/label = D-Trp

<220>

<221> MOD\_RES

<222> (8)

<223> /product = Leucine N-ethylamide/label = Leu-NHet

<400> 29

Xaa Gln Xaa Ala Val Gly His Xaa  
1 5